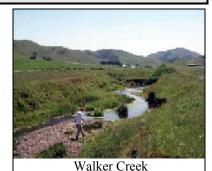
DESCRIPTION

The Walker Creek watershed covers 73 square miles in West Marin County, an area of rolling hills to steep gullies. The majority of the watershed is private property, and the major land uses are livestock ranching and dairies. The creek is a protected habitat for coho salmon (the native run is generally extirpated, but Calif. Dept. of Fish and Game has recently reintroduced coho on an experimental basis), steelhead trout, and California freshwater shrimp. Major tributaries are Chileno Creek and Keys Creek.

The Walker Creek watershed is highly impacted by sedimentation from eroding banks due to the native geology and past and current grazing practices. The watershed has also been subjected to high levels of mercury from the mining operations of the Gambonini Mine from 1964 to 1970 and the subsequent legacy contamination found in sediments in the upper tributaries (Chileno and Salmon Creeks) and mainstem Walker Creek, as well as in sediments transported to Tomales Bay. Transport of mercury to the Bay has lead to health advisories for fish consumption. Walker Creek is listed for sediments, nutrients, and mercury. It is also considered impaired for pathogens due to high levels of fecal coliform.



(Photo courtesy KRIS http://www.krisweb.com/kris_wms/krisdb/webbuilder/wc_p13.htm).

For more photos, visit the California Coastal Records Project: www.californiacoastline.org.

REASON FOR CCA IDENTIFICATION

Walker Creek was a 1998 303(d)-listed waterbody that flows into a **Marine Managed Area** (Tomales Bay, part of the Gulf of the Farallones National Marine Sanctuary).

POLLUTED RUNOFF CONDITIONS

	Top 5 Runoff Pollutants of Concern					Efforts to
	J			Other Pollutant of Concern	Address Pollutants (See next page)	
Selected Coastal Zone Waterbodies	Mercury	<u>Nutrients</u>	<u>Sediment</u>	<u>Pathogens</u>	?	
Walker Creek ▲	▲ Medium	▲ Medium	▲ Medium	$[\blacktriangle]^1$		a, b, c, d, e, f
Tomales Bay ■	■ Medium	■ Medium	■ Medium	High (2004)		a, c, d, e, f
Agriculture		A =	A •	$\blacksquare [\blacktriangle]^1$		a, b, c, d, g, i
Intensive Animal Feeding Operations				■ [▲] ¹		a, b, c, d, g
Forestry (Silviculture)						j
Urban Areas						
> Septic				•		a, d
Hydromodification						
Upstream Impoundment						b
Wetlands & Riparian Areas						i, j
Resource Extraction						
➤ Surface Mining	A					e, f, h
➤ Mine Tailings	▲ ■					e, f, h

Walker Creek CCA

MAJOR EFFORTS TO IMPLEMENT NPS MANAGEMENT MEASURES

1417	JOK EFFORTS TO IVIT LEMIE		GENTERVI IVIE					
a)	Pathogens in Tomales Bay, Total M Project Report, March 12, 2004	http://www.swrcb.ca.gov/rwqcb 2/tomalesbaypathogenstmdl.htm						
SF Bay Regional Water Quality Control Board		Farhad Ghodrati	(510) 622-2331	fghodrati@waterboards.ca.gov				
> T	> Total Maximum Daily Load (TMDL) implementation plan to reduce pathogens in Tomales Bay and tributaries.							
b)	Walker Creek Watershed Plan	http://www.sonomamarinreds.or g/district-mc/						
Mar	in Resource Conservation District	marinrcd@svn.net						
	➤ Grant funded project to prepare geomorphic assessment of Walker Creek watershed and assessment of mercury-laden sediments, sediment loading and transport to Tomales Bay.							
c)	Tomales Bay Watershed Enhancen		http://www.malt.org/news/sum mer2003archive.htm					
	nales Bay Agricultural Group/ University alifornia Cooperative Extension	Dave Lewis	(707) 565-2621	djllewis@ucdavis.edu				
	➤ Landowner-initiated project to address NPS pollution from dairies and rangelands, in cooperation with UC Cooperative Extension, Marin RCD, and NRCS. Implementation projects from fencing to streambank repair.							
d)	Tomales Bay Watershed Stewards Action, July 2003	http://www.tomalesbaywatershed.org/stewardship.pdf						
	Tomales Bay Watershed Council Neysa King (415) 663-9092			tbwc@horizoncable.com				
> V	Vatershed stewardship plan including outro	each, education, and i	mplementation ac	tions to address NPS pollution.				
e)	Walker Creek Mercury TMDL Pro	http://www.waterboards.ca.gov/sanfranciscobay/tmdlmain.htm						
SF I Boa	Bay Regional Water Quality Control rd		(510) 622-2300	tmdlinfo@waterboards.ca.gov				
> N	fercury Total Maximum Daily Load (TMI	DL) in progress for W	alker Creek; prob	lem statement developed.				
f)	Walker Creek Geomorphic Assessi	ment		http://www.sonomamarinrcds.or g/district-mc/info.html				
	in Resource Conservation District	Nancy Scolari (415) 663-1170		marinrcd@svn.net				
> Grant funded project to prepare geomorphic assessment of Walker Creek watershed and assessment of mercury-laden sediments, sediment loading and transport to Tomales Bay								
g)	Tomales Bay Watershed Baseline S Monitoring Program	http://water.usgs.gov/nps_partne rship/projects.html						
Nati	onal Park Service & USGS	Brannon Ketcham	(415) 464-5192	Brannon_Ketcham@nps.gov				
> U	SGS sediment study of Tomales, Lagunita	plan final draft 12-04.						
h)	US EPA Final Project Plan for Gia							
SF Bay Regional Water Quality Control Jill Marshall (510) 622-238 Board			(510) 622-2388	jmarshall@waterboards.ca.gov				
> Remediation plan for Giacomini mine, stabilization completed under Superfund Program; ongoing monitoring by Regional Board in Gambonini, Salmon and Walker Creeks.								
i)	Walker Creek and Stempel Creek	http://www.sonomamarinreds.or						
Mar	Marin Resource Conservation District Nancy Scolari (415) 663-9092			marinred@svn.net				

¹ Brackets indicate that pathogens are not listed in the 2002 303(d) list for Walker Creek; however, the San Francisco Bay Regional Water Quality Control Board provided information that pathogens are a pollutant of concern for this waterbody.

Walker Creek CCA

 ▶ Goals are control of soil erosion; education and outreach; protection and improvement of water quality; conservation of rangeland; cropland and forest; support of agricultural economy; riparian habitat restoration.

 j)
 Walker Creek Watershed Enhancement Program
 http://www.sonomamarinrcds.or g/district-mc/info.html

 Marin County Resource Conservation District
 Nancy Scolari
 (415) 663-9092
 marinrcd@svn.net

 ▶ Grant to implement projects that will restore salmon and steelhead populations in the Walker Creek watershed using

riparian fencing, native plant revegetation, alternative water sources, and biotechnical erosion control methods.

REGULATORY/PLANNING JURISDICTIONS

➤ Marin County Stormwater Pollution Prevention Program	http://mcstoppp.org/	Liz Lewis	(415) 499-7226	lizlewis@co.marin.ca.us
Marin County, Community Development Dept.	http://www.co.marin.ca. us/depts/CD/main/index .cfm	Thomas Lai	(415) 499-6292	tlai@co.marin.ca.us
> Marin County Farm Bureau	http://www.cfbf.com/co unties/co-21.cfm	Henri Grossi	(415) 663-1231	marincfb@svn.net
Calif. Coastal Commission, Water Quality Unit	http://www.coastal.ca.g ov/nps/npsndx.html	Lisa Sniderman	(415) 904-5270	lsniderman@coastal.ca.gov
 San Francisco Bay Regional Water Quality Control Board 	http://www.waterboards .ca.gov/sanfranciscobay	Jill Marshall	(510) 622-2388	jmarshall@waterboards.ca.gov
> State Water Resources Control Board	http://www.waterboards _ca.gov/	Diane Edwards	(916) 341-5908	dedwards@waterboards.ca.gov
California Coastal Conservancy	http://www.coastalcons ervancy.ca.gov/	Karyn Gear	(510) 286-4171	kgear@scc.ca.gov
Calif. Dept. of Fish & Game, Marine Region	http://www.dfg.ca.gov/ mrd/index.html	Laura Rogers- Bennett	(707) 875-2035	rogersbennett@ucdavis.edu
Calif. Dept. of Fish & Game, Region 3	http://www.dfg.ca.gov/	Tom Moore	(707) 875-4261	tmoore@dfg.ca.gov
> NOAA, Gulf of the Farallones National Marine Sanctuary	http://farallones.noaa.go v	Maria Brown	(415) 561-6622	maria.brown@noaa.gov